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11: Int J Oncol. 2005 Nov;27(5):1257-63.

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Human telomerase reverse transcriptase (hTERT), the catalytic subunit of telomerase, is very closely associated with telomerase activity. Telomerase has been implicated in cellular immortalization and carcinogenesis. In situ was to detect expression of hTERT mRNA, hTERT protein, estrogen receptor (ER) and progesterone receptor detection of hTERT will aid in determining the localization of telomerase-positive cells. The aim of this study

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progesterone receptors, in breast tumors: preliminary data from neo-adjuvant chemotherapy.

<u>Kammori M, Izumiyama N, Hashimoto M, Nakamura K, Okano T, Kurabayashi R, Naoki H, Honma N, </u>

Expression of human telomerase reverse transcriptase gene and protein, and of estrogen and

treatment, neo-adjuvant chemotherapy led to disappearance of gene and protein expression in all cases. There was tumors. Moreover, ER and PR were expressed in 42 (66%) and 42 (66%) carcinomas, respectively, and in neither a strong correlation between detection of hTERT gene expression by ISH and of hTERT protein by ICH in tissue tumors. hTERT protein expression was detected by IHC in 52 (81%) carcinomas, but in neither of the 2 phyllode of the 2 phyllode tumors. In 4 cases of breast carcinoma that strongly expressed hTERT gene and protein before (PR) in paraffin-embedded breast tissue samples and to investigate the relationship between hTERT expression ER and PR, in breast tissues including 64 adenocarcinomas, 2 phyllode tumors and their adjacent normal breast examine hTERT gene expression, and immunohistochemistry (IHC) to examine expression of hTERT protein, tissues. hTERT gene expression was detected by ISH in 56 (88%) carcinomas, but in neither of the 2 phyllode specimens from breast tumors. These results suggest that detection of hTERT protein by ICH can be used to and various clinicopathological parameters in breast tumorigenesis. We used in situ hybridization (ISH) to distinguish breast cancers as a potential diagnostic and therapeutic marker. 6/20/2006

PMID: 16211220 [PubMed - indexed for MEDLINE]

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Jun 14 2006 10:29:54